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Scientific and Technical Information Center

FUFIT

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Title of Invention:	•	·
Inventors (please provide full name	s):	
Earliest Priority Filing Date:		
For Sequence Searches Only Please is appropriate serial number.	nclude all pertinent informati	ion (parent, child, divisional, or issued patent numbers) along with the
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Clerical Prep Time:	Patent Family	WWW/Internet
Online Time:	_ Other Apr	Other (specify)
PTO-1590 (1-2000)	••	

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industry.
             Vermiculite...
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         (c) 2002 Phoenix Newspapers
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         (c) 2002 The Gale Group
File 608:KR/T Bus.News. 1992-2002/Dec 04
         (c) 2002 Knight Ridder/Tribune Bus News
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         (c) 2000 OTIVA, Inc.
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         (c) 2002 Freedonia Group Inc.
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         (c) 2002 The Dialog Corporation
? ds
        Items
Set
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          148
S1
             CELLULOSE OR ETHYL()CELLULOS? OR POLYURETHANE OR LINOLENIC OR
             SUCCINIC) (7N) (SLOW? OR TIME? OR CONTROL?) (7N) RELEAS?
S2
          136 RD (unique items)
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2/3,K/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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13173397 BIOSIS NO.: 200100380546

Extended release acetaminophen.

AUTHOR: Anaebonam Aloysius O; Clemente Emmett; Mendes Robert W

JOURNAL: Official Gazette of the United States Patent and Trademark Office

Patents 1248 (1):pNo Pagination July 3, 2001

MEDIUM: e-file ISSN: 0098-1133

DOCUMENT TYPE: Patent RECORD TYPE: Abstract LANGUAGE: English

ABSTRACT: An extended *release* acetaminophen composition comprises particles containing acetaminophen *coated* on sugar/*starch* *seeds*. The particles are present as a blend of both an immediate *release* and a *controlled* release form. The composition, when contained within a gelatin capsule and assayed in a USP...

2/3,K/2 (Item 1 from file: 74)

DIALOG(R) File 74: Int. Pharm. Abs.

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00252760 33-03169

SUSTAINED RELEASE FLURBIPROFEN BEADS

Pandey, S.; Singh, U. V.; Udupa, N.

Coll. of Pharm. Sci., K. M. C., Manipal-576 119, India Indian Journal of Pharmaceutical Sciences (India), V57, (3), p102-104, 1995 CODEN: IJSIDW ISSN: 0250-474X LANGUAGE: English RECORD TYPE: Abstract

A pan *coating* procedure for dried edible ripened plant *seeds* of Paspalum scrobiculatum *coated* with flurbiprofen and *ethylcellulose*, which was developed for the design of an oral *controlled* *release* preparation of the drug, is described.

In vitro dissolution and bioavailability studies in 6 healthy...

2/3,K/3 (Item 1 from file: 112)

DIALOG(R) File 112: UBM Industry News

(c) 2002 United Business Media. All rts. reserv.

01019184 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Prolonged activity against WBF

Arable Farming , p 3

May 13, 97

LANGUAGE: English RECORD TYPE: Fulltext DOC. TYPE: Journal

WORD COUNT: 00000248

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...forming a protective zone around the developing plant." The active ingredient is encapsulated in tiny *polymer* *coated* spheres within the *seed* *coating* allowing a *slow* and *controlled* *release* of insecticide over a longer period of time.

"Cost is "marginally more" than fonofos.

2/3,K/4 (Item 1 from file: 144) DIALOG(R) File 144: Pascal (c) 2002 INIST/CNRS. All rts. reserv. 15653647 PASCAL No.: 02-0359380 Effects of double encapsulation and coating on synthetic seed conversion in M.26 apple rootstock MICHELI M; PELLEGRINO S; PICCIONI E; STANDARDI A Department of Arboriculture and Plant protection, University of Perugia, Borgo XX Giugno, 74, 06121 Perugia, Italy Journal: Journal of microencapsulation, 2002, 19 (3) 347-356 Language: English Copyright (c) 2002 INIST-CNRS. All rights reserved. English Descriptors: Pharmaceutical technology; Malus domestica; Bud; Encapsulation; Artificial *seed*; Rooting; Alginates; *Control* *release* *polymer*; *Coating*; Physical structure; Physicochemical properties; Viability; Regrowth; Callus; Fabrication property relation

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         (c) 2002 CAB International
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         (c) 2002 BioCommerce Data Ltd.
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Set

Items

Description

S1	974 (SEED OR SEEDS) (7N) (COAT? OR COVER?) (7N) (POLYMER? OR ETHYL-
ĴΙ	374 (SEED OR SEEDS) (74) (COAI: OR COVER:) (74) (COMMERCE OR ETHILE
	CELLULOSE OR ETHYL()CELLULOSE OR POLYURETHANE OR STARCH OR BI-
	ONOLLE OR LINOLENIC OR SUCCINIC OR ALLYL)
S2	4 S1(7N)(SLOW? OR TIME? OR CONTROL?)(3N)RELEAS?
2	

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      16:Gale Group PROMT(R) 1990-2002/Dec 04
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             OR POLYURETHANE OR STARCH
         6961
                BIONOLLE OR PVOH OR PVA
S2
          799
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S3
           10
                LINOLEN? (2N) ALCOHOL?
S4
            8
                ALLYL (2N) PHENOL
S5
S6
           16
                ALLYL (2N) PHENOL?
        54362
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                COAT? OR COVER? OR ENROB?
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S8
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S9
            0
                SEED OR SEEDS
S10
       573703
S11
           33
                S7 (7N) S10 (7N) S8
                 S11 AND (S1 OR S2 OR S3 OR S4 OR S6)
S12
            6
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12/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
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02344584 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Water-soluble films: an explanation

(World: Demand for water-soluble film as packaging material is rising 15%/yr; Chris Craft Industrial Products believes that use of water-soluble film as packaging material in Asia has bright future, especially in China and Taiwan)

Plastics & Rubber Asia, v 13, n 63, p 30+

November 1998

DOCUMENT TYPE: Journal ISSN: 0344-8843 (United Kingdom)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 401

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...currently growing at the rate of 15% per year. The latest generation of polyvinyl alcohol (**PVOH**) homopolymer, copolymer, and cellulosic polymer films produces mechanically tough packages with greater versatility, enhanced machinability...

...Advances in technology continue to expand the range of products that can be packaged in **PVOH** water soluble films, simultaneously widening the scope of packaging equipment options to include all types of form-fill-seal machinery.

PVOH or cellulosic water-soluble films are quickly biodegradable as they dissolve upon contact with water...

...cost-conscious industrial users as well as consumers.

The ability to incorporate specialty ingredients into **PVOH** film has allowed manufacturers to develop a diverse array of innovative product enhancements. Converters have...

- ...in barrier film for sanitary napkins
- * germinating aids and fungicides in tape for spacing garden **seeds**
- * biocides in hospital laundry bags to disinfect linen during collection
- * **slow**-**releasing** medication in wound **coverings** and drug-delivery patches.

The most widely used **PVOH** materials in the packaging industry are cold water-soluble films. Chris*Craft's MonoSol Division has developed an extensive range of **PVOH**-based films that are suitable for products in solid, liquid or gel form. ...

12/3,K/2 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06043746 Supplier Number: 53542394 (USE FORMAT 7 FOR FULLTEXT) US technology in focus.
Plastics & Rubber Asia, v13, n83, p26(1)
Nov, 1998

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 2333

- .--

... not be pelletized. An example of this is our Hot Melt Adhesive and TPU (thermoplastic **polyurethane**) production systems. These offer customers the opportunity to pelletize a wide range of products at... currently growing at the rate of 15% per year. The latest generation of polyvinyl alcohol (**PVOH**) homopolymer, copolymer, and cellulosic polymer films produces mechanically tough packages with greater versatility, enhanced machinability...

...Advances in technology continue to expand the range of products that can be packaged in **PVOH** water soluble films, simultaneously widening the scope of packaging equipment options to include all types of form-fill-seal machinery.

 $\rm **\bar{P}VOH**$ or cellulosic water-soluble films are quickly biodegradable as they dissolve upon contact with water...

...cost-conscious industrial users as well as consumers.

The ability to incorporate specialty ingredients into **PVOH** film has allowed manufacturers to develop a diverse array of innovative product enhancements. Converters have...

...in barrier film for sanitary napkins

- * germinating aids and fungicides in tape for spacing garden **seeds**
- $\ ^{\star}$ biocides in hospital laundry bags to disinfect linen during collection
- * **slow**-**releasing** medication in wound **coverings** and drug-delivery patches.

The most widely used **PVOH** materials in the packaging industry are cold water-soluble films. Chris*Craft's MonoSol Division has developed an extensive range of **PVOH**-based films that are suitable for products in solid, liquid or gel form. LNP Engineering...

12/3,K/3 (Item 1 from file: 50)

DIALOG(R) File 50: CAB Abstracts

(c) 2002 CAB International. All rts. reserv.

02986676 CAB Accession Number: 950703242

Effect of deep placement of **coated** urea **slow** **release** nitrogen fertilizer on chemical composition of soyabean **seeds**.

Ohyama, T.; Otake, N.; Chinushi, T.; Takahashi, Y.

Niigata University, Niigata 950-21, Japan.

Japanese Journal of Soil Science and Plant Nutrition vol. 65 (1): p.41-47

Publication Year: 1994

ISSN: 0029-0610 --

Language: Japanese Summary Language: english

Document Type: Journal article

Effect of deep placement of **coated** urea **slow** **release**
nitrogen fertilizer on chemical composition of soyabean **seeds**. --

Seed N, P, K, Ca, Mg, Na, Fe, **starch**, oil, oligosaccharide and protein composition was not significantly affected by deep placement of coated urea...

...DESCRIPTORS: **starch**;

12/3,K/4 (Item 1 from file: 79)
DIALOG(R)File 79:Foods Adlibra(TM)
(c) 2002 General Mills. All rts. reserv.

163107 88080803

Corn **starch**
Author(s): NA

Genetic Technology News, 8(3) (March 1988), p. p 18,31

Corn **starch**

Corn **starch**: USDA research on corn **starch** gives rise to a steady stream of new products. One area of produce development is super absorbent materials. Others coming along both experimentally and commercially include **slow** **release** pesticides, biodegradable packaging materials, soil stabilizers and **seed** **coatings**.

12/3,K/5 (Item 1 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2002 The Gale Group. All rts. reserv.

09915257 SUPPLIER NUMBER: 19872746 (USE FORMAT 7 OR 9 FOR FULL TEXT) Choosing and using water-soluble films.

Ink & Print, v15, n3, p6(2)

Summer, 1997

ISSN: 0263-497X LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1718 LINE COUNT: 00155

... per year, and it's easy to understand why. The latest generation of polyvinyl alcohol (**PVOH**) homopolymer. copolymer, and cellulosic polymer films produces mechanically tough packages with greater versatility, enhanced machinability...

...Advances in technology continue to expand the range of products that can be packaged in **PVOH** water-soluble films, simultaneously widening the scope of packaging equipment options to include all types of form-fill-seal machinery.

'Today's **PVOH** films represent significant advances over previously developed materials, says Andy Verrall. Technical Manager at Chris...

...jugs produced every year, disposal of chemically-contaminated containers has become a major worldwide concern. **PVOH** or cellulosic water-soluble films, quickly biodegradable as they dissolve upon contact with water, make disposal problems virtually disappear.

In addition, **PVOH** films offer a significant advantage over traditional bulk packaging methods. an especially desirable attribute in...

...cost-conscious industrial users as well as consumers.

The ability to incorporate specialty ingredients into **PVOH** film has allowed manufacturers to develop a diverse array of innovative product enhancements. Converters have...

...in barrier film for sanitary napkins: germinating aids and fungicides in tape for spacing garden **seeds**; biocides in hospital laundry bags to disinfect linen during collection: and **slow**-**releasing** medication in wound **coverings** and drug-delivery patches.

An additional option from Greensol SA is the development of its...

...generation of films is their increased chemical and physical compatibility with the products they enclose.

'**PVOH** is not an inert polymer.' says Verrall. 'The chemical structure that provides for water solubility...

...relatively reactive one which can be modified to give an insoluble polymer. In addition, most **PVOH** polymers need to be made more flexible with potentially leachable plasticisers. The challenge for us...

できると

...appropriate base-polymer systems and the overall film formulation.'

By far the most widely-used **PVOH** materials in the packaging industry are cold water-soluble films. Chris*Craft's MonoSol Division has developed an extensive range of **PVOH**-based films that are suitable for products in solid, liquid or gel form. These films...

12/3,K/6 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c) 2002 The Gale Group. All rts. reserv.

05797572 SUPPLIER NUMBER: 11902096 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Converter's materials. (speciality packaging)

Paper Film and Foil CONVERTER v66, p2, p12(1)

Paper, Film and Foil CONVERTER, v66, n2, p12(1)

Feb, 1992

ISSN: 0031-1138 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1107 LINE COUNT: 00094

TEXT:

20.

Water-soluble polyvinyl alcohol (**PVOH**) films for a range of specialty-packaging applications are available from Chris Craft Industrial Products...

Mono-sol films produced from **PVOH** are transparent, tough and versatile. They can be made insoluble for soft-goods packaging, hot...

...pan liners and packaging of culture mediums.

On the consumer-packaging front, several formulations of **PVOH** are used for packaging laundry detergent, toilet-cleaner blocks, household dyes, seed tapes and gardening...

- ...in barrier film for sanitary napkins.
- $\,\,^*$ Germinating aids and fungicides in tape for spacing garden $\,^{**}\text{seeds}\,^{**}.$
- $\,\,^*$ Biocides in hospital laundry bags to disinfect linen during collection.
- * **Slow**-**releasing** medication in wound **coverings** and drug-delivery patches.

After the **PVOH** has dissolved and completed its packaging purpose, the material is biodegradable and considered nontoxic. The degree of **PVOH** degradation has been found to be more than 90% within approximately seven days under test...

...by the US Environmental Protection Agency.

It was also observed that in the presence of **PVOH**, the metabolism of microorganisms necessary for degradation wasn't inhibited or retarded. This means that **PVOH** can be broken down into minute fragments and also can contribute to effluent chemical oxygen demand in waste-treatment facilities.

Although the advantages of **PVOH** are significant, the firm warns many considerations must be taken into account when embarking on a project involving the film. Obviously, the packets must be protected from water until use. **PVOH** must be stable when in contact with the product being packaged as well as be...

...the film series will best suit the application.

In many cases, the commercial grades of **PVOH** films simply won't satisfy the end-use application requirements. A cooperative effort usually can...?

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(FILE 'HOME' ENTERED AT 10:47:21 ON 04 DEC 2002)
     FILE 'REGISTRY' ENTERED AT 10:47:45 ON 04 DEC 2002
               E ETHYLCELLULOSE/PCT
             27 S ETHYLCELLULOSE
L1
                E CELLULOSE ACETATE/CN
L2
              1 S E3
                E ETHYLCELLULOSE/CN
L3
              1 S E3
                E POLYURETHANE/CN
                E POLYURETHANE/PCT
L4
          61853 S E3
                E STARTCH/CN
                E STRACH/CN
                E BIONOLLE
             26 S E3
L5
                E SUCCINIC ANHYDRIDE/CN
L6
              1 S E3
                E LINOLENIC ALCOHOL
                E LINOLENIC/CN
                E ALLYL ALKYL PHENOL/CN
                E SUCCINIC ANHYDRIDE/CN
L7
              1 S E3
     FILE 'CAPLUS' ENTERED AT 10:54:39 ON 04 DEC 2002
           125 S (L1 OR L2 OR L3 OR L4 OR L5) AND (L6 OR ALLYL()ALKYL OR LINOL
L8
L9
          45981 DS
L10
             4 S L8 AND SEED?
        1167281 S COAT? OR COVER?
L11
         33130 S (SLOW? OR CONTROL?) (3A) RELEAS?
L12
         149030 S SEED OR SEEDS
L13
L14
              1 L8 AND L12 AND L13
              2 S L8 AND L12 AND L11
L15
     FILE 'AGRICOLA' ENTERED AT 11:18:42 ON 04 DEC 2002
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lehman eic 3600

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=> d ibib abs 1-4

L10 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:736579 CAPLUS

DOCUMENT NUMBER: 137:228099

TITLE: Polymeric film coatings for **seed** treatment

for controlled release of pesticides

INVENTOR(S): Ding, Yiwei; Asrar, Jawed

PATENT ASSIGNEE(S): Monsanto Technology, L.L.C., USA SOURCE: U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE ______ ______ US2002134012 A1 A1 20020926 2002US-0079000 20020218 A1 20021017 2002WO-US04699 20020219 WO2002080675 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: 2001US-277503P P 20010321 A method of controlling the release rate of an agricultural active ingredient, such as pesticide, from a seed that has been treated with that active includes providing a seed that has been treated with the active ingredient, applying to the treated seed a film that includes an emulsion of a polymer in a liq. in which both the agricultural active ingredient and the polymer have low levels of soly., and then curing the film to form a water insol. polymer coating on the surface of the treated seed. The agricultural active ingredient is a pesticide selected from the group consisting of herbicides, insecticides, acaricides, fungicides, nematocides, and bactericides. seed is the seed of a plant selected from the group consisting of corn, peanut, canola/rapeseed, soybean, cucurbits, cotton, rice, sorghum, sugar beet, wheat, barley, rye, sunflower, tomato, sugarcane, tobacco, oats, vegetables, and leaf crops, including transgenic

crops. The polymer is selected from the group consisting of polyesters,

L10 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:525953 CAPLUS

DOCUMENT NUMBER: 135:112006

TITLE: Pharmaceutical composition for reducing plasma

polycarbonates, co-polymers of styrene, and mixts. thereof.

triglycerides, platelet aggregation, and oxidative

capacity

INVENTOR(S): Cincotta, Anthony

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE ----------WO2001051088 A1 20010719 2001WO-US00385 20010105

W: CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

7

PT, SE, TR

2000US-175176P P 20000107 PRIORITY APPLN. INFO.:

A compn. comprising at least one unsatd. fatty acid, such as an omega-3 fatty acid; pantethine; and an antioxidant selected from the group consisting of vitamin C, vitamin E, tocotrienol, at least one carotenoid, at least one flavonoid, coenzyme Q10, and grape seed ext. Such active ingredients may be encapsulated in an encapsulating medium to form microparticles, which may be suspended in an aq. soln. Such a compn. reduces plasma triglyceride levels, platelet hyper-aggregation, endothelium dysfunction, and tissue oxidative capacity, and thus reduces the risk of cardiovascular disease. A formulation was prepd. by adding the the following ingredients to a fruit drink: vitamin E 400 IU, vitamin C 1, bioflavenoids 1, microencapsulated fish oil 5, microencapsulated pantethine powder 1.5 g, and grape seed ext. 50 mg. Addn. of the above formulation to the diet of hyperlipidemic mice reduced the serum triglyceride level by 70% and the serum total cholesterol level by 34% to levels obsd. in normal lean mice.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1999:184293 CAPLUS

DOCUMENT NUMBER:

TITLE:

130:224129 Open-cell polyisocyanurate foam for fixing and

supporting plants

INVENTOR(S): Sano, Yoko

PATENT ASSIGNEE(S):

Japan

SOURCE:

PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO. DATE
WO9911689	A1 1999031	11 1998WO-JP03952 19980903
· · ·	CA, CN, KR, SG	·
RW: AT, BE,	CH, CY, DE, DK	K, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
JP11193320	A2 1999072	21 1997JP-0370280 19971226
JP11140156	A2 1999052	25 1998JP-0042762 19980121
TW430683	B 2001042	21 TW 1998-87114506 19980901
AU9889971	A1 1999032	22 1998AU-0089971 19980903
AU747748	B2 2002052	23
EP939092	A1 1999090	01 1998EP-0941701 19980903
R: BE, CH,	DE, DK, FR, GB	3, IT, LI

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BR---9806160
                          20001031
                                        1998BR-0006160
                                                        19980903
                    Α
                     B1
                          20010807
                                        1999US-0297511
                                                        19990503
    US---6271274
                                     1997JP-0276347 A 19970903
PRIORITY APPLN. INFO.:
                                     1997JP-0370280 A 19971226
                                     1998JP-0042762 A 19980121
                                     1998WO-JP03952
                                                    W 19980903
```

An open-cell polyisocyanurate foam, having d. 8-70 kg/m3, open cell AB content .gtoreg.98 %, a hardness 0.2-1.5 kgf/cm2 in a state compressed by 10 to 40 % in both the parallel direction and its rectangular direction, and having excellent water absorption retention for fixing and supporting plants is prepd. from an arom. isocyanate, a hydroxyl compd. having functional groups .gtoreq.1.0 and oxyethylene content .gtoreq.20 wt.%, an isocyanuration catalyst, a polysiloxane/polyoxyalkylene foam stabilizer, and a nonionic emulsifier with no active hydrogen. Thus, ethylene oxide/propylene oxide (80/20) ether with 1,2,3-propanetriol (3:1) 100, -polymeric MDI (Coronate 1110) 350, Polycat 46 (potassium acetate)0.6, Polycat 42 (a mixt. of N, N', N''-tris(dimethylaminopropyl)hexahydro-Striazine and 2-ethylhexane potassium mixt. of N, N', N''tris(dimethylaminopropyl)hexahydro-S-triazine and 2-ethylhexane potassium) 1.4, silicone defoamer (polydimethylsiloxane-co-polyethylene glycol) 3.0, polyethylene glycol dioleate (Ionet DO 600) 100, alkyl di-Ph ether sulfonic acid sodium salt (Newcol 271 S) 20 formed a polyisocyanurate foam, showing 10% and 40% compression hardness 0.50 and 0.52 kgf/cm3 resp., open cell ratio 100, water absorption 0.94 vol/vol, water retention Section of the second

0.64 vol/vol, and good gnow seedling performance.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1991:606617 CAPLUS

DOCUMENT NUMBER: 115:206617

TITLE: Feed additives rich in omega-3 fatty acids

INVENTOR(S): Lee, Nam Myung; Yoon, Chil Surk; Kim, Heung Man

PATENT ASSIGNEE(S): Korea Food Research Institute, S. Korea

SOURCE: Brit. UK Pat. Appl., 12 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB2240702	A1	19910814	1990GB-0011483	19900523
GB2240702	B2	19940316		
JP03240444	A2	19911025	1990JP-0154992	19900612
US5106639	Α	19920421	1991US-0649019	19910201
PRIORITY APPLN. INFO.:			1990KR-0001620	19900210
75 m 1 11/1/ 11			2 ()	

AB Feed additives that improve the .omega.-3 fatty acid content of meat are described. The additives use oils rich in polyunsatd. fatty acids that are mixed with a suitable carrier and dried to a powder that is then coated with an enteric coating material. Feeding expts. on pigs in which a no. of such prepns. were compared for their effects on .omega.-3 fatty acid content in liver microsomes, loin, and s.c. are described. When tallow was used as the fat the .omega.-3 fatty acid content of liver microsomes was 6.4% of total fatty acids. Addn. of cottonseed oil lowered this to 4%. The use of powd. perilla oil prepd. by the method of the invention raised this to 20.5%. Coating the powder with derivatized

cellulose raised the value to 29.7%.

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:736579 CAPLUS

DOCUMENT NUMBER: 137:228099

Polymeric film coatings for seed treatment TITLE:

for controlled release of

pesticides

Ding, Yiwei; Asrar, Jawed INVENTOR(S):

PATENT ASSIGNEE(S): Monsanto Technology, L.L.C., USA U.S. Pat. Appl. Publ., 15 pp. SOURCE:

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT				ND	DATE			A	PPLI	CATI	ON NO	٥.	DATE				
	US2002134012				 1	20020926			2002US-0079000 20020218					0218				
	WO20020	8067.	5	A	1	2002	1017		2002WO-US04699 20020						0219	219		
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	
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		TJ,	TM	•	·	•	·	•	•	•	•	•	·	•	·	•	·	
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	CH,	
		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	
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AB	A metho	d off	con	trol	ling	the	rel	ease	rate	e of	an							
	agricul											de,	from	a s	eed			
	that ha															a		

that has been treated with that active includes providing a seed that has been treated with the active ingredient, applying to the treated seed a film that includes an emulsion of a polymer in a liq. in which both the agricultural active ingredient and the polymer have low levels of soly., and then curing the film to form a water insol. polymer coating on the surface of the treated seed. The agricultural active ingredient is a pesticide selected from the group consisting of herbicides, insecticides, acaricides, fungicides, nematocides, and bactericides. The seed is the seed of a plant selected from the group consisting of corn, peanut, canola/rapeseed, soybean, cucurbits, cotton, rice, sorghum, sugar beet, wheat, barley, rye, sunflower, tomato, sugarcane, tobacco, oats, vegetables, and leaf crops, including transgenic crops. The polymer is selected from the group consisting of polyesters, polycarbonates, co-polymers of styrene, and mixts. thereof.

=>

2 L8 AND L12 AND L11

=> d ibib abs 1-2

L15 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:736579 CAPLUS

DOCUMENT NUMBER:

137:228099

TITLE:

Polymeric film coatings for seed treatment

for controlled release of

pesticides

INVENTOR(S):

Ding, Yiwei; Asrar, Jawed

PATENT ASSIGNEE(S): SOURCE:

Monsanto Technology, L.L.C., USA U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	NO.		KI	ND	DATE			Α	PPLI	CATI	ON N	0.				
US20021													2002			
WO20020	8067	5	Α	1	2002	1017		2	002W	o-us	0469	9	2002	0219		
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	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	ĢΗ,
	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	OM,	PH,
	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	ΤZ,
	UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZM,	ZW,	AM,	ΑZ,	ΒY,	KG,	ΚZ,	MD,	RU,
	ТJ,	TM														
RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	ĊН,
	CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	TR,
	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
PRIORITY APP	LN.	INFO	. :					2001	US-2	7750	3 P	P	2001	0321		
AB A metho	d of	con	trol	ling	the	rel	ease	rate	e of	an						
agricul																
been tr	eate	d wi	th t	hat	acti	ve i	nclu	des 1	prov	idin	ga:	seed	tha	t ha:	s be	en
treated	with	h th	e ac	tive	ing	redi	ent,	app.	lvin	g to	the	tre	ated	seed	d a :	film

agricultural active ingredient, such as pesticide, from a seed that has been treated with that active includes providing a seed that has been treated with the active ingredient, applying to the treated seed a film that includes an emulsion of a polymer in a liq. in which both the agricultural active ingredient and the polymer have low levels of soly., and then curing the film to form a water insol. polymer coating on the surface of the treated seed. The agricultural active ingredient is a pesticide selected from the group consisting of herbicides, insecticides, acaricides, fungicides, nematocides, and bactericides. The seed is the seed of a plant selected from the group consisting of corn, peanut, canola/rapeseed, soybean, cucurbits, cotton, rice, sorghum, sugar beet, wheat, barley, rye, sunflower, tomato, sugarcane, tobacco, oats, vegetables, and leaf crops, including transgenic crops. The polymer is selected from the group consisting of polyesters, polycarbonates, co-polymers of styrene, and mixts. thereof.

L15 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1995:988109 CAPLUS

DOCUMENT NUMBER: 124:37704

TITLE: Use of fatty acid esters as bloadhesive substances INVENTOR(S): Hansen, Jens; Sylvest Nielsen, Lise; Norling, Tomas

PATENT ASSIGNEE(S): A/S Dumex, Den.

SOURCE: PCT Int. Appl., 117 pp.

· CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
WO9526715 WO9526715			1995WO-DK00143 19950329	
W: AM, AT, FI, FI,	AU, BB GB, GE	, BG, BR, , HU, IS,	BY, CA, CH, CN, CZ, CZ, DE, DK, EE, ES, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG,	
RW: KE, MW,	NL, PT		BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,	
AU9522550 AU685262	A1 B2 A1	19951023 19980115 19970115	1995CA-2186750 19950329 1995AU-0022550 19950329 1995EP-0915817 19950329	
R: AT, BE, JP09510980 AT180971 ES2135723 FI9603867	CH, DE T2 E T3 A	DK, ES, 19971104 19990615 19991101 19961127	FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, S 1995JP-0525360 19950329 1995AT-0915817 19950329 1995ES-0915817 19950329 1996FI-0003867 19960927 1996NO-0004113 19960927 1994DK-0000370 A 19940330 1995WO-DK00143 W 19950329	SE

S. C. C. C.

The fatty acid esters as bioadhesive substances have mol. wts. < 1000 AΒ dalton and the fatty acid component of the fatty acid ester is a satd. or unsatd. fatty acid having a total no. of carbon atoms of C8-22. Particularly suitable fatty acid esters for use according to the invention are esters of polyhydric alcs., hydroxycarboxylic acids, monosaccharides, glycerylphosphate derivs., glycerylsulfate deriv., and mixts. thereof. Excellent bioadhesive properties have been obsd. for fatty acid esters of glyceryl monooleate, glyceryl monolinoleate or glyceryl monolinolenate. Methods are described for administering an active or protective substance to undamaged or damaged skin or mucosa of an animal such as a human by combining the active or protective substance with a bioadhesive fatty acid ester. The mucosa may be the oral, aural, nasal, lung, gastrointestinal, vaginal, or rectal mucosa. The administration may also be to body cavities such as the oral cavity, e.g. via buccal administration. Glyceryl monooleate (GMO) 48 was mixed with ethanol 32 and lidocaine-HCl 20 g, resp., and tested for bioadhesiveness. A residual amt. of .apprx.71% wt./wt. GMO was found after testing.

=>

(Item 1 from file: 5) 2/3,K/1 DIALOG(R)File 5:Biosis Previews(R) (c) 2002 BIOSIS. All rts. reserv. BIOSIS NO.: 199799461135 10839990 Effects of specific gravity and food on bioavailability of controlled-release multiple unit dosage forms. AUTHOR: Ikegami Kengo; Yamahara Hiroshi; Ohsawa Takashi; Murata Kazuo; Kobayashi Masao AUTHOR ADDRESS: Pharm. Res. Lab., Tanabe Seiyaku Co. Ltd., 3-16-89, Kashima, Yodogawa-ku, Osaka 532**Japan JOURNAL: Yakuzaigaku 56 (4):p171-177 1996 ISSN: 0372-7629 RECORD TYPE: Abstract LANGUAGE: Japanese: Non-English SUMMARY LANGUAGE: Japanese: English ABSTRACT: The influence of the specific gravities of beads and food on the bioavailability of *controlled*-*release* multiple unit dosage forms was investigated. Beads of various specific gravities were prepared using alumina, sucrose and foamed polystyrene as the *seed* materials of the core beads. *Controlled*-*release* beads for theophylline, were prepared so as to have the same *release* profiles, of which the half-dissolution *time* was about 5 h, by *coating* the core beads with *ethylcellulose*. The specific gravities of the *controlled*-*release* beads produced were 2.3 (TD-H. *seed*; alumina), 1.2 (TD-M, *seed*; sucrose) and 0.5 (TD-L, *seed*; foamed polystyrene). The beads were filled in 2 gelatin capsules and administered in 100 mg... ? t 2/3,k/all >>>KWIC option is not available in file(s): 399 (Item 1 from file: 5) 2/3,K/1 DIALOG(R)File 5:Biosis Previews(R) (c) 2002 BIOSIS. All rts. reserv. BIOSIS NO.: 199799461135 10839990 Effects of specific gravity and food on bioavailability of controlled-release multiple unit dosage forms. AUTHOR: Ikegami Kengo; Yamahara Hiroshi; Ohsawa Takashi; Murata Kazuo; Kobayashi Masao AUTHOR ADDRESS: Pharm. Res. Lab., Tanabe Seiyaku Co. Ltd., 3-16-89, Kashima, Yodogawa-ku, Osaka 532**Japan JOURNAL: Yakuzaigaku 56 (4):p171-177 1996 ISSN: 0372-7629 RECORD TYPE: Abstract LANGUAGE: Japanese: Non-English SUMMARY LANGUAGE: Japanese: English ABSTRACT: The influence of the specific gravities of beads and food on the bioavailability of *controlled*-*release* multiple unit dosage forms was investigated. Beads of various specific gravities were prepared using alumina, sucrose and foamed polystyrene as the *seed* materials of the core beads. *Controlled*-*release* beads for theophylline, were prepared so as to have the same *release* profiles, of which the half-dissolution *time* was about 5 h, by *coating* the core beads with *ethylcellulose*. The specific gravities of the *controlled*-*release* beads produced were

2.3 (TD-H. *seed*: alumina). 1.2 (TD-M. *seed*: sucrose) and 0.5 (TD-L. *seed*: foamed polystyrene). The beads were filled in 2 gelatin capsules

and administered in 100 mg...

2/3,K/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

09508494 BIOSIS NO.: 199497516864

In vitro/in vivo correlations of sustained-release coated multiparticulate formulations of doxazosin.

AUTHOR: Thombre A G(a); Denoto A R; Falkner F C; Lazar J D

AUTHOR ADDRESS: (a) Warner-Lambert Co., Morris Plains, NJ 07950**USA JOURNAL: International Journal of Pharmaceutics (Amsterdam) 111 (2):p

181-189 1994

ISSN: 0378-5173

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

ABSTRACT: Sustained-*release* *coated* multiparticulates of doxazosin were prepared by layering the drug onto nonpareil *seeds* and then *coating* these drug-layered beads with a rate-*controlling* membrane made from a mixture of *ethylcellulose* (EC) and hydroxypropylcellulose (HPC). The in vitro doxazosin *release* rates were dependent on the external medium and

2/3,K/3 (Item 1 from file: 15)

increased with the ratio of HPC/EC...

DIALOG(R)File 15:ABI/Inform(R)

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02148039 70230179

Release of phenylpropanolamine HCI from ethylcellulose-coated pellets in biorelevant media

Loi, Vassiliki; Fotaki, Nikoletta; Reppas, Christos; Wheatley, Thomas; Dressman, Jennifer

Pharmaceutical Technology v25n3 PP: 44-50+ Mar 2001

ISSN: 0147-8087 JRNL CODE: PHTY

WORD COUNT: 2590

...TEXT: B. Dressman et al., "Dissolution Testing as a Prognostic Tool for Oral Drug Absorption: Immediate *Release* Dosage Forms," Pharm. Res. 15 (1),11-22 (1998).

- 2 J.B. Dressman et al., "Circumvention of pH Dependent *Release* from *Ethylcellulose*-*Coated* Pellets," J. *Controlled* *Release* 36, 251-260 (1995).
- 3. L. Araujo et al., "*Release* Characteristics of Phenylpropanolamine/Microcrystalline Cellulose *Seeds* Overcoated with *Ethylcellulose*; Pharm. Technol. 23 (9), 60-70 (1999).

4. M. Efentakis and J.B. Dressman, "Gastric...

2/3,K/4 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2002 The Gale Group. All rts. reserv.

09972536 Supplier Number: 90103991 (USE FORMAT 7 FOR FULLTEXT)
Agricultural publications Summit InfoExpo guide. (Agricultural Publications Summit, LLC).(Brief Article)
Agri Marketing, v40, n7, pI-14(4)

July-August, 2002

Language: English Record Type: Fulltext

Article Type: Brief Article

Document Type: Magazine/Journal; Trade

Word Count: 3334

polymer products, for a variety of food, agricultural, and licensed partner applications. The Intellicoat(R) *seed* *coating* technology is a functional polymer *seed* *coating* that is based on proprietary Intelimer(TM) *polymers*. Three ag applications of Intellicoat are: early plant *coatings*, pollinator plus and relay cropping. Other crops and applications for the technology that are currently under consideration include: *time*/temperature *release* of *seed* applied pesticides, fall planted crops such as canola, and vegetable seed applications.

Spokesperson/title: Bill...

2/3,K/5 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2002 The Gale Group. All rts. reserv.

08127188 Supplier Number: 67832184 (USE FORMAT 7 FOR FULLTEXT)

MORE THAN A COVER-UP.

Crabb, Charlene; D'Aquino, Rita; Kamiya, Takeshi

Chemical Engineering, v107, n12, p41

Nov. 2000

Language: English Record Type: Fulltext Document Type: Magazine/Journal; Refereed; Trade

Word Count: 1833

... venture to establish new technologies for agrochemical companies. One of the targeted areas is functional *coatings* for *seeds*. According to Uniqema, company researchers will be developing natural and synthetic *polymers* for *seed* *coatings* that will have "tunable" adhesion, oxygen permeability, moisture sensitivity and temperature-sensitive *release* rates for active ingredients and nutrients.

Already in the fields are functional *seed* *coatings* by Landec Ag, Inc. (Monticello, Ind.), a subsidiary of Landec Corp. (Menlo Park, Calif.). The company has developed and patented *polymers* used in its Intellicoat *coatings*, which regulate germination by *controlling* when *seeds* begin imbibing water. Based on C12-C25 side-chained *polymers*, these *coatings* are temperature-activated -- below their melting points, the *polymers* have a crystalline structure that is impermeable to moisture, but once the surrounding soil warms up enough, the *seed* *coatings* melt, thereby becoming amorphous and allowing water to permeate and germination to begin. This temperature...

2/3,K/6 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2002 The Gale Group. All rts. reserv.

06863317 Supplier Number: 57578856 (USE FORMAT 7 FOR FULLTEXT)

California, here I come.

Food Processing, v60, n10, p12

Oct, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 219

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...based Landec Corp., which makes breathable membrane for packaging fresh-cut produce, has developed a *time*-*release* *seed* that could change the way farmers plant their fields, reports the Wall Street Journal. The *seeds*, developed at a cost of \$10 million, are *coated* with an acrylic *polymer*, which acts like a temperature triggered switch. When the soil warms to a certain level...

2/3,K/7 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2002 Inst for Sci Info. All rts. reserv.

02397037 Genuine Article#: KY494 No. References: 24

Title: DRUG RELEASE FROM TRIBLOCK COPOLYMERS OF POLY(HYDROXYALKYL

L-GLUTAMINE)-POLY(ETHYLENE OXIDE)-POLY(HYDROXYALKYL L-GLUTAMINE)

Author(s): CHO CS; BAE YH; KIM SW

Corporate Source: UNIV UTAH, CTR CONTROLLED CHEM DELIVERY, DEPT PHARMACEUT & PHARMACEUT CHEM/SALT LAKE CITY//UT/84112

Journal: ACS SYMPOSIUM SERIES, 1993, V520, P274-287

ISSN: 0097-6156

Language: ENGLISH Document Type: REVIEW (Abstract Available)

Research Fronts: 91-1045 001 (*POLYMER* LIQUID-CRYSTAL COMPOSITE FILMS; FACILITATED TRANSPORT MECHANISM IN FIXED SITE CARRIER MEMBRANES; VISCOSITY OF DILUTE POLYELECTROLYTE SOLUTIONS)

91-7310 001 (INTERSTITIAL CHEMOTHERAPY; SURFACE CHEMICAL-STRUCTURE; BIOCOMPATIBLE *CONTROLLED* *RELEASE* *POLYMERS*)

91-8002 001 (ULTRASTRUCTURE OF SPONTANEOUS NODULES; WHEAT SEEDLINGS; CALCIUM-OXALATE CRYSTAL-FORMATION IN THE BEAN (PHASEOLUS-VULGARIS L) *SEED* *COAT*)

2/3,K/8 (Item 1 from file: 35)

DIALOG(R) File 35: Dissertation Abs Online (c) 2002 ProQuest Info&Learning. All rts. reserv.

1031843 ORDER NO: AAD88-25791

PHYSOSTIGMINE: STABILITY KINETICS, ASSAY DEVELOPMENT, PREFORMULATION STUDIES OF INJECTIONS AND THE DEVELOPMENT OF SLOW RELEASE ORAL PREPARATIONS

Author: YANG, SHIU-LIN SHIRLEY TUAN

Degree: PH.D. Year: 1988

Corporate Source/Institution: AUBURN UNIVERSITY (0012)

Source: VOLUME 49/09-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3701. 138 PAGES

...provided no protection. No detectable amount of physostigmine remained in the unbuffered solutions after autoclaving.

Slow-*release* pellets of chlorpheniramine maleate and physostigmine sulfate were prepared by loading the drugs with an aqueous film *coat* onto nonpareil *seeds* followed by encapsulation with *ethylcellulose* applied as an aqueous dispersion by the Wurster process. The *release* of the model drug, chlorpheniramine, appeared to follow first-order kinetics. The *release* rate constants were inversely proportional to particle size and the amount of the sustaining *coat* on the *seeds*. Reducing pH of the dissolution media increased the *release* rate constants. The elevated process temperatures did not cause degradation of physostigmine. Tabletting *coated* pellets of chlorpheniramine maleate increased *release* rates of the drug. Incorporating hydroxypropyl methylcellulose of 4000 cps in the tablet formulation reduced...

2/3,K/9 (Item 1 from file: 50)
DIALOG(R)File 50:CAB Abstracts

(c) 2002 CAB International. All rts. reserv.

02355823 CAB Accession Number: 911152141

Release and field performance of pesticides in film-coated vegetable seeds.

Kosters, P. S. R.

Sluis & Groot Research, Zaadunie B.V., Enkhuizen, Netherlands.

Conference Title: Brighton Crop Protection Conference. Pests and Diseases - 1988. Vol. 2.

p.859-866

-- 0

Publication Year: 1988

Publisher: British Crop Protection Council -- Thornton Heath, UK

ISBN: 0-948404-26-4 Language: English

Document Type: Conference paper

The effect of *polymers* used in film-*coating* on the *release* of active ingredient (a.i.) of pesticides depends on *seed* type and temperature. At lower temperatures *release* is *slower* in a water-based laboratory system. Field performance of chlorfenvinphos in film-*coated* carrot *seed* for protection against Psila rosae in the Netherlands was comparable to field applications of the...

2/3,K/10 (Item 1 from file: 53)

DIALOG(R)File 53:FOODLINE(R): Food Science & Technology (c) 2002 LFRA. All rts. reserv.

00481697 FOODLINE ACCESSION NUMBER: 447405

Agricultural uses of hydrocolloids.

Nussinovitch A

Hydrocolloid applications: gum technology in the food and other industries.

169-189 (127 ref.)

Nussinovitch A

PUBLISHER: Blackie, London

1997

ISBN NO: 0-412-62120-7 CLASSIFICATION: 668.4 LANGUAGE: English

DOCUMENT TYPE: Book; Book chapter

ABSTRACT: This chapter describes *controlled*-*release* systems for agricultural chemicals, such as pesticides, herbicides, fungicides, growth regulators and fertilisers. Consideration is given to *polymer* *seed* *coatings* that absorb water and increase the chance of germination; *coatings* for fresh produce, that allow fruits and vegetables to continue their metabolic activity after harvest.

2/3,K/11 (Item 1 from file: 73)

DIALOG(R) File 73: EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

07584593 EMBASE No: 1999077493

Rhizobacteria microencapsulation: Properties of microparticles obtained by spray-drying

Amiet-Charpentier C.; Gadille P.; Benoit J.P. J.P. Benoit, UPRES EA 2169, 'Vectorisation Particulaire', Faculte de Pharmacie, 16 Bd Daviers, 49100 Angers France

Journal of Microencapsulation (J. MICROENCAPSULATION) (United Kingdom) 1999, 16/2 (215-229)

CODEN: JOMIE ISSN: 0265-2048 DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 24

...humidities of 33 and 55%. The release of the encapsulated bacteria was also studied over *time*. The *release* was fast, the bacteria being observed at 15 min immersion of the Eudragit(R) microparticles...

...an aqueous-buffer medium at 20degreeC. This results related to the physicochemical character of the *coating* *polymer* showed that water was the triggering element for the *release* of rhizobacteria. Compatibility studies between two film-forming agents used for *seed* *coatings* and the encapsulated bacteria, as well as wettability measures of tableted microparticles, were carried out. The bacterial survival was good with the *seed* *coating* agent, Sepiret(R) 1039G, and the wettability measurements of agglomerated microparticles were in accord with the rapid *release* of the microencapsulated bacteria. The application of microparticles containing rhizobacteria on *seeds* can now be considered for preliminary trials.

2/3,K/12 (Item 1 from file: 74)

DIALOG(R) File 74: Int. Pharm. Abs.

(c) 2002 Amer.Soc.of Health-System Pharm. All rts. reserv.

00252760 33-03169

SUSTAINED RELEASE FLURBIPROFEN BEADS

Pandey, S.; Singh, U. V.; Udupa, N.

Coll. of Pharm. Sci., K. M. C., Manipal-576 119, India

Indian Journal of Pharmaceutical Sciences (India), V57, (3), p102-104, 1995 CODEN: IJSIDW ISSN: 0250-474X LANGUAGE: English RECORD TYPE: Abstract

A pan *coating* procedure for dried edible ripened plant *seeds* of Paspalum scrobiculatum *coated* with flurbiprofen and *ethylcellulose*, which was developed for the design of an oral *controlled* *release* preparation of the drug, is described.

In vitro dissolution and bioavailability studies in 6 healthy volunteers showed the *coated* *seeds* to be comparable to a marketed product.

2/3,K/13 (Item 1 from file: 129)

DIALOG(R) File 129: PHIND(Archival)

(c) 2002 PJB Publications, Ltd. All rts. reserv.

00487944

New generation launch for Original seed

ASI 2612 p7, March 22, 1996 (19960322)

STORY TYPE: F WORD COUNT: 177

...promoting

agent will be carried on the seed surface by Nickerson's patented seed film *coating* technique. The *coating* is applied as a "chain mail" mesh, allowing moisture to come into contact with the *seed*, while providing *slow* *release* protection against pests and

diseases. The improved *polymer* carrier is more accurate on a *seed*-by-*seed* basis than conventional slurry-type treatments, says cereals product manager Lee Robinson. The *seed* comes with a purity and germination declaration "significantly better" than official standards, says Nickerson. Last...

2/3,K/14 (Item 2 from file: 129) DIALOG(R) File 129: PHIND (Archival) (c) 2002 PJB Publications, Ltd. All rts. reserv.

00321560

Landec/Gustafson study novel seed coating Agrow 167 p13, September 04, 1992 (19920904) STORY TYPE: F WORD COUNT: 147

... yields and reducing re-planting costs, Gustafson notes. Other potential advantages of using Intelimer include *time*-staggered germination to accommodate hybrid pollination, increased stand uniformity and earlier harvesting. In addition to its *seed* *coating* potential, the *polymer* is also being evaluated by American Cyanamid and Ciba-Geigy for use in *controlled*-*release* pesticide formulations (see Agrow No 138, p 24).

(Item 3 from file: 129) 2/3, K/15DIALOG(R) File 129: PHIND (Archival) (c) 2002 PJB Publications, Ltd. All rts. reserv.

00284992

Landec researches novel seed coating:

Agrow 142 p23, August 30, 1991 (19910830) STORY TYPE: B WORD COUNT: 94

... Menlo Park, California) has received a research grant from the USDA to develop a novel *seed* *coating* that allows temperature-*controlled* germination. Landec's proprietary temperature-sensitive *polymer*, Intelimer, can prevent *coated* *seeds* from imbibing moisture below a pre-determined temperature and therefore delay germination until conditions are more favourable, the company claims. The temperature at which the *polymer* becomes ? y permeable can be selected to coincide with the optimum germination conditions for specific *seeds*. Landec is using the technology to develop *controlled*-*release* pesticide formulations under agreements with Cyanamid and Ciba-Geigy (see Agrow No 138, p 24).

2/3,K/16 (Item 1 from file: 144) DIALOG(R) File 144: Pascal (c) 2002 INIST/CNRS. All rts. reserv.

PASCAL No.: 02-0359380 15653647

Effects of double encapsulation and coating on synthetic seed conversion in M.26 apple rootstock

MICHELI M; PELLEGRINO S; PICCIONI E; STANDARDI A Department of Arboriculture and Plant protection, University of Perugia, Borgo XX Giugno, 74, 06121 Perugia, Italy Journal: Journal of microencapsulation, 2002, 19 (3) 347-356

Language: English

Copyright (c) 2002 INIST-CNRS. All rights reserved.

English Descriptors: Pharmaceutical technology; Malus domestica; Bud; Encapsulation; Artificial *seed*; Rooting; Alginates; *Control* *release* *polymer*; *Coating*; Physical structure; Physicochemical properties; Viability; Regrowth; Callus; Fabrication property relation

2/3,K/17 (Item 2 from file: 144)

DIALOG(R) File 144: Pascal

(c) 2002 INIST/CNRS. All rts. reserv.

PASCAL No.: 00-0373196 14697960

Modulation of drug release rate of diltiazem-HCl from hydrogel matrices of succinic acid-treated ispaghula husk

GOHEL M C; AMIN A F; CHHABARIA M T; PANCHAL M K; LALWANI A N Department of Pharmaceutical Technology, L. M. College of Pharmacy, Navrangpura, Ahmedabad 380 009, India

Journal: Pharmaceutical development and technology, 2000, 5 (3) 375-381 Language: English

Copyright (c) 2000 INIST-CNRS. All rights reserved.

English Descriptors: Pharmaceutical technology; Dosage form; Diltiazem; Calcium antagonist; *Slow* *release* form; *Succinic* acid; Tablet; Hydrogel; Swelling; Mechanical properties; Dissolution; *Release*; In vitro; Mathematical model; Mathematical analysis; Forecast model; Vehicle(excipient); Benzothiazepine derivatives; Plantago; *Seed* *coating*; Matrix tablet

2/3,K/18 (Item 1 from file: 322)

DIALOG(R) File 322: Polymer Online

(c) 1990 John Wiley & Sons Inc. All rts. reserv.

201240000 Summary Chapter CH=20124 Type TY=201240 UN=201240000 Unit

Chapter Title: Agricultural Applications

Author: McCormick, Charles L.

Institution: University of Southern Mississippi Source: Encyclopedia of Polymer Science and Engineering, Second Edition,

Vol. 1, Pages 611-622.

Number of Sections = 5 Tables = 3Descriptors= 168 References = 63

Abstract:

... Biodegradable and photodegradable plastic mulches have been developed, as well as a wide range of *polymers* for *controlled* *release* of herbicides, fungicides, insecticides, pheromones, plant growth regulators, and fertilizers. Water-swellable *polymers* have been used in *seed* *coating*, hydromulching, and gel planting. *Polymeric* used as wetting are agents, compatibility agents, adjuvants spreader-stickers, and flow aids. Continual growth of agricultural *polymers* is anticipated as macromolecules are tailored for specific applications. Vol. 1, pp. 611-622, 62...

Section Headings:

Plastic Film, Sheets, and Composites Mulches Mulches Greenhouses and Row *Covers* Greenhouses and Row *Covers* *Polymers* for *Controlled* *Release* of Agricultural Chemicals Mechanisms of *Release* Mechanisms of *Release* Herbicides, Insecticides, Nematicides, and Pheromones Herbicides, Insecticides, Nematicides, and Pheromones Fertilizers Fertilizers Water-soluble, -swellable, or-dispersible *Polymers* *Seed* *Coating* *Seed* *Coating* Gel Planting Gel Planting Soil Conditioning Soil Conditioning *Polymeric* Adjuvants *Polymeric* Adjuvants Future

2/3,K/19 (Item 2 from file: 322)

DIALOG(R) File 322: Polymer Online

(c) 1990 John Wiley & Sons Inc. All rts. reserv.

201241000 Text Chapter CH=20124 Type TY=201241 Unit UN=201241000

Chapter Title: Agricultural Applications

Section Heading: Untitled

Text:

... 2) in the 1930s and 1940s for greenhouse covering, fumigation, and mulching, agricultural applications of *polymers* have grown at an enormous rate. All principal classes of *polymers*, ie, plastics, *coatings*, elastomers, fibers, and water-soluble *polymers*, are presently utilized in applications, which include *controlled* *release* of pesticides and nutrients, soil conditioning, *seed* *coating*, gel planting, and plant protection. Additionally, *polymers* are becoming increasingly important as structural components of farm buildings and machinery, for water transport and *control*, and in packaging of produce (3).

The structural, vascular, and storage components of plants themselves...

2/3,K/20 (Item 1 from file: 323)

DIALOG(R) File 323: RAPRA Rubber & Plastics

(c) 2002 RAPRA Technology Ltd. All rts. reserv.

00349188

TITLE: POLYMERS IN AGRICULTURE: POLYMERS FOR THE CONTROLLED RELEASE OF ACTIVE AGENTS IN AGRICULTURE

AUTHOR(S): Mateo J L; Sastre R

CORPORATE SOURCE: INSTITUTO DE PLASTICOS Y CAUCHO

SOURCE: Revista de Plasticos Modernos; 53, No.371, May 1987, p.616-23

Karen Lehman EIC 3600 04-Dec-02

ISSN: 0034-8708

CODEN: RPMOAM JOURNAL ANNOUNCEMENT: 198805 RAPRA UPDATE: 198807

DOCUMENT TYPE: Journal Article

LANGUAGE: Spanish SUBFILE: (R) RAPRA

ABSTRACT: Consideration is given to the use of plastics and rubber matrices for the *controlled* *release* of pesticides, herbicides, biocides and fertilisers in agriculture. Details are given of a range of commercial systems, and the use of *polymers* in *seed* *coatings* and soil

treatment is also discussed. 38 refs.

2/3,K/21 (Item 1 from file: 340)
DIALOG(R)File 340:CLAIMS(R)/US Patent
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

10190308 2002-0134012

M/METHOD OF CONTROLLING THE RELEASE OF AGRICULTURAL ACTIVE INGREDIENTS FROM TREATED PLANT SEEDS

Inventors: Asrar Jawed (US); Ding Yiwei (US)

Assignee: Monsanto Technology LLC

Assignee Code: 58657

	Pι	ublication		Αŗ	oplication	
Kind		Number	Date		Number	Date
A1	US	20020134012	20020926	US	200279000	20020218
Priority Applic:				US	200279000	20020218
Provisional Applic:				US	60-277503	20010321

Abstract: A method of *controlling* the *release* rate of an agricultural active ingredient from a *seed* that has been treated with that active includes providing a *seed* that has been treated with the active ingredient, applying to the treated *seed* a film that includes an emulsion of a *polymer* in a liquid in which both the agricultural active ingredient and the *polymer* have low levels of solubility, and then curing the film to form a water insoluble polymer *coating* on the surface of the treated seed. Seeds that have been treated by this method...

2/3,K/22 (Item 2 from file: 340)
DIALOG(R)File 340:CLAIMS(R)/US Patent
(c) 2002 IFI/CLAIMS(R). All rts. reserv.

10007678 2001-0007681 2001-0002136

C/DILTIAZEM CONTROLLED RELEASE FORMULATION AND METHOD OF MANUFACTURE; COATED PELLETS

Inventors: CHEN CHIH-MING (US); CHENG XIU XIU (US); JAN STEVE (US)

Assignee: Unassigned Or Assigned To Individual

Assignee Code: 68000

	Kind		blication Number	Date	oplication Number	Date	
Priority Applic		US 2	20010007681	20010712		1998119323 98119323	

Abstract: A **controlled* *release* diltiazem dosage formulation comprising a plurality of active pellets *coated* with an extended *release* *coating*

wherein the active pellets contain diltiazem or a pharmaceutically acceptable salt, a pharmaceutically acceptable inert *seed* and a binder and the extended *release* *coating* contains a water insoluble water permeable *polymer*, a channeling agent, a lubricant and optionally a surfactant. A single batch intermittent method of...

2/3,K/23 (Item 3 from file: 340) DIALOG(R) File 340:CLAIMS(R)/US Patent (c) 2002 IFI/CLAIMS(R). All rts. reserv.

3186764 9926036

C/CONTROLLED RELEASE COATED AGRICULTURAL PRODUCTS; *CONTROLLED* *RELEASE* *COATED* AGRICULTURE PRODUCT OF *SEED* *COATED* WITH AMORPHOUS ALKYLENE-SULFUR *COPOLYMER*

Inventors: Wellinghoff Stephen T (US) Assignee: Southwest Research Institute

Assignee Code: 78576

Publication Kind Number Date Application Number Date A US 5939356 19990817 US 97878667 19970619 US 97878667 19970619 Priority Applic: US 60-20790 19960621 Provisional Applic: Calculated Expiration: 20170619

...*CONTROLLED* *RELEASE* *COATED* AGRICULTURE PRODUCT OF *SEED* *COATED* WITH AMORPHOUS ALKYLENE-SULFUR *COPOLYMER*

Abstract: *Controlled* *release* *coated* agricultural products comprising agricultural chemicals, *seed*, or mixtures thereof *coated* with an environmentally degradable amorphous alkene-sulfur *copolymer* are disclosed. Also disclosed is the process of making such products, preferably by *coating* with a molten copolymer and then cooling to harden the coating of copolymer about the...

Exemplary Claim: 1. A composition comprising a *controlled* *release* *coated* agricultural product comprising an agricultural chemical, *seed*, or mixture thereof *coated* with an environmentally degradable amorphous alkene-sulfur *copolymer* containing dissolved \$8 and pollymeric sulfur.

Non-exemplary Claims: ...10. A process of making a *controlled* *release* *coated* agricultural product comprising an agricultural chemical, *seed*, or mixture thereof comprising *coating* said agricultural product with an environmentally degradable and amorphous alkene-sulfur *copolymer* containing dissolved s8 and plymeric sulfur, said *coating* being of a thickness sufficient to *control* *release* of said agricultural product due to environmental degradation...

2/3,K/24 (Item 1 from file: 347) DIALOG(R) File 347: JAPIO (c) 2002 JPO & JAPIO. All rts. reserv.

Image available TONER FOR DEVELOPING ELECTROSTATIC CHARGE IMAGE AND PRODUCTION THEREOF

PUB. NO.: 03-276164 [JP 3276164 A] PUB. NO.: 03-276164 [JP 3276164 A]
PUBLISHED: December 06, 1991 (19911206)
INVENTOR(s): KANEKO GIICHI

APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 02-075631 [JP 9075631] FILED: March 27, 1990 (19900327)

JOURNAL: Section: P, Section No. 1323, Vol. 16, No. 100, Pg. 6, March

11, 1992 (19920311)

ABSTRACT

... is obtained by diazotizing a p-dialkylaminoanilino derivative and coupling the diazotized derivative with fluoroglycine. *Polymerized* particles obtained by *seed* *polymerization* or dispersion *polymerization* may be used as the resin particles. A *coating* layer of an electrostatic charge *control* agent or a *releasable* substance may be formed on the surface of each of the dyed particles.

2/3,K/25 (Item 1 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

(c) 2002 European Patent Office. All rts. reserv.

01403276

Intermittent administration of a growth hormone secretagogue Intermittierende Verabreichung eines Wachstumshormon-sekretionsforderers Administration intermittente d'un secretagogue d'hormone de croissance PATENT ASSIGNEE:

Pfizer Products Inc., (2434221), Eastern Point Road, Groton, Connecticut 06340, (US), (Applicant designated States: all)

INVENTOR:

Maclean, David Burton, Pfizer Global, Research and Development, Eastern Point Road, Groton, Connecticut 06340, (US) LEGAL REPRESENTATIVE:

Ruddock, Keith Stephen et al (75661), Pfizer Limited, European Patent Department, Ramsgate Road, Sandwich, Kent CT13 9NJ, (GB)

PATENT (CC, No, Kind, Date): EP 1186293 A2 020313 (Basic)

APPLICATION (CC, No, Date): EP 2001307229 010824;

PRIORITY (CC, No, Date): US 229077 P 000830

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A61K-031/00; A61K-031/437; A61K-031/444;

A61P-003/04; A61P-003/10; A61P-009/04; A61P-019/00; A61P-019/10

ABSTRACT WORD COUNT: 23

LANGUAGE (Publication, Procedural, Application): English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A (English) 200211 493
SPEC A (English) 200211 22157
Total word count - document A 22650
Total word count - document B 0
Total word count - documents A + B 22650

... SPECIFICATION multiparticulates.

Another preferred process for making multiparticulate cores of this embodiment is the process of *coating* *seed* cores with GHSEC and optionally other excipients, as previously discussed for matrix multiparticulates.

A sustained *release* *coating* as is known in the art, especially *polymer* *coatings*, may be employed to fabricate the membrane, as previously discussed for reservoir systems. Suitable and preferred *polymer* coating materials, equipment, and coating methods also include

those previously discussed.

The rate of GHSEC release from the coated multiparticulates can also be *controlled* by factors such as the composition and binder content of the active compound-containing core...

2/3,K/26 (Item 2 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

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01256812

Herbicidal composition

Herbizide Zusammensetzung

Composition herbicide

PATENT ASSIGNEE:

Novartis AG, (2240421), Schwarzwaldallee 215, 4058 Basel, (CH),

(Applicant designated States: all)

INVENTOR:

Ruegg, Willy T., Felmetweg 6, 5073 Gipf-Oberfrick, (CH)

LEGAL REPRESENTATIVE:

Becker, Konrad (59745), Novartis AG, Patent und Markenabteilung

Agribusiness Werk Rosental, 4002 Basel, (CH)

PATENT (CC, No, Kind, Date): EP 1084618 A1 010321 (Basic)

APPLICATION (CC, No, Date): EP 120012 000914;

PRIORITY (CC, No, Date): CH 991700 990916

DESIGNATED STATES: DE; FR; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A01N-043/80; A01N-037/42; A01N-025/32

ABSTRACT WORD COUNT: 60

LANGUAGE (Publication, Procedural, Application): English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) 200112 114 SPEC A (English) 200112 2222 Total word count - document A 2336 Total word count - document B 0 Total word count - documents A + B 2336

...SPECIFICATION emulsifiable concentrate, wettable powder or granulate is applied to the open furrow in which the *seeds* have been sown. After *covering* the furrow, the herbicide is applied pre-emergence in conventional manner.

iv) *Controlled* *release* of compound

The compound of formula II is applied in solution to a mineral granular carrier or to *polymerised* granules (urea/formaldehyde) and then dried. A coating can then be applied (coated granules) that...

2/3,K/27 (Item 3 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

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01246743

Seed coating compositions for low temperature applications Samenbeschichtungzusammensetzung zur Anwendungen bei niedriger Temperatur Compositions de revetement de graines pour application a basse temperature PATENT ASSIGNEE:

National Starch and Chemical Investment Holding Corporation, (1222944), P.O. Box 7663, Wilmington, Delaware 19803-7663, (US), (Applicant

designated States: all) INVENTOR: Puglisi, Christine, 262 Hickory Lane, Mountainside, New Jersey 07092, Guth, Jacob J., 1245 Friendship Lane, Upper Black Eddy, Pennsylvania 18972, (US) LEGAL REPRESENTATIVE: Held, Stephan, Dr. rer. nat., Dipl. - Chem. et al (76651), Patentanwalte, Hagemann, Braun und Held, Patentanwalte, Postfach 86 03 29, 81630 PATENT (CC, No, Kind, Date): EP 1078563 A1 010228 (Basic) APPLICATION (CC, No, Date): EP 117372 000823; PRIORITY (CC, No, Date): US 382434 990825 DESIGNATED STATES: DE; FR; GB EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: A01C-001/06 ABSTRACT WORD COUNT: 147 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Word Count Available Text Language Update 245 (English) 200109 CLAIMS A SPEC A (English) 200109 3958 Total word count - document A 4203 Total word count - document B 0 Total word count - documents A + B 4203

...ABSTRACT Tg of -60(degree)C to 20(degree)C, provided that the Tg of the *polymer* is less than or equal to the seed surface temperature at the *time* of application. The seed *coating* compositions of the invention provide a matrix which entraps active ingredients and improves seedling survival by maintaining the active ingredient on the surface of the *seed* for a period of *time*. The *seed* *coating* also increases the safety of using an active ingredient by reducing operator exposure and environmental *release*. In addition, the *seed* *coating* composition is resistant to cracking and flaking even when the *seed* *coating* composition is applied at a temperature of less than 20(degree)C. Moreover, the *seed* *coating* composition improves the uniformity of seed size and shape which is advantageous to mechanical planting...

...SPECIFICATION Tg of -60(degree)C to 20(degree)C, provided that the Tg of the *polymer* is less than or equal to the seed surface temperature at the *time* of application.

The seed *coating* compositions of the invention provide a matrix which entraps active ingredients and improves seedling survival by maintaining the active ingredient on the surface of the *seed* for a period of *time*. The *seed* *coating* also increases the safety of using an active ingredient by reducing operator exposure and environmental *release*. In addition, the *seed* *coating* composition is resistant to cracking and flaking even when the *seed* *coating* composition is applied at a temperature of less than 20(degree)C. Moreover, the *seed* *coating* composition improves the uniformity ...is advantageous to mechanical planting techniques.

Virtually any seed can be treated with the seed *coating* composition of the invention, such as cereals, vegetables, ornamentals, and fruits. Preferably the seeds are...

2/3,K/28 (Item 4 from file: 348) DIALOG(R)File 348:EUROPEAN PATENTS

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01050253

Controlled release tacrine dosage form

Tacrine enthaltende Dosierungsform zur kontrollierten Freigabe Forme de dosage a liberation controllee comprenant de la tacrine PATENT ASSIGNEE:

DEVELOPMENT CENTER FOR BIOTECHNOLOGY, (1114340), 81 Chang Hsing Street, Taipei, (TW), (applicant designated states:

AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE)

INVENTOR:

Chen, Pao-Nien, 102, Lane 169, Kang-ning St., Shih-Chih, Taipei, (TW) Lai, Chuan-Ming, 102, Lane 169, Kang-ning St., Shih-Chih, Taipei, (TW) Liu, Shu-Jian, 102, Lane 169, Kang-ning St., Shih-Chih, Taipei, (TW) Liu, Fan-Jung, 102, Lane 169, Kang-ning St., Shih-Chih, Taipei, (TW) Lu, Shu-Bin, 102, Lane 169, Kang-ning St., Shih-Chih, Taipei, (TW)

Lu, Shu-Bin, 102, Lane 169, Kang-ning St., Shih-Chih, Taipei, (TW) LEGAL REPRESENTATIVE:

Cresswell, Thomas Anthony (50351), J.A. KEMP & CO. 14 South Square Gray's Inn, London WC1R 5LX, (GB)

PATENT (CC, No, Kind, Date): EP 928610 A1 990714 (Basic)

APPLICATION (CC, No, Date): EP 98300102 980108;

PRIORITY (CC, No, Date): EP 98300102 980108

DESIGNATED STATES: DE; ES; FR; GB; IT

INTERNATIONAL PATENT CLASS: A61K-031/645; A61K-009/50;

ABSTRACT WORD COUNT: 45

LANGUAGE (Publication, Procedural, Application): English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) 9928 457 SPEC A (English) 9928 5004 Total word count - document A 5461 Total word count - document B Λ Total word count - documents A + B 5461

... SPECIFICATION compliance of the medicine, in particular to senile people.

USP 5,576,022 discloses a *controlled* *release* tacrine drug delivery system comprising immediate *release* pellets and sustained *release* pellets. The immediate *release* pellets are formed by *coating* non-pareil *seeds* with a *coating* comprising tacrine and a binder, and then with a *coating* comprising a sealing agent and a plasticizing agent. The sustained *release* pellets are formed by *coating* the immediate *release* pellets with a sustained release *coating* comprising a water insoluble *polymer*, a water soluble *polymer* and a second plasticizing agent.

The delivery system of the above patent may *control* the release of tacrine. However, as the sustained release pellets are multilayered, the preparation procedures...

2/3,K/29 (Item 5 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

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00887941

HERBICIDAL SYNERGISTIC COMPOSITION AND METHOD OF WEED CONTROL

HERBIZIDE SYNERGISTISCHE ZUSAMMENSETZUNG UND VERFAHREN ZUR UNKRAUTBEKAMPFUNG

COMPOSITION HERBICIDE SYNERGIQUE ET PROCEDE DE LUTTE CONTRE LES MAUVAISES HERBES

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PATENT ASSIGNEE:
  Syngenta Participations AG, (3172801), Schwarzwaldallee 215, 4058 Basel,
    (CH), (Proprietor designated states: all)
INVENTOR:
  RUEGG, Willy, Felmetweg 6, CH-5073 Gipf-Oberfrick, (CH)
LEGAL REPRESENTATIVE:
  Becker, Konrad et al (59741), Novartis AG Geistiges Eigentum Konzern
    Patent- und Markenabteilung CH Postfach, 4002 Basel, (CH)
PATENT (CC, No, Kind, Date): EP 888057 A1
                                             990107 (Basic)
                              EP 888057 B1 010905
                              WO 9734485 970925
APPLICATION (CC, No, Date):
                              EP 97905150 970303; WO 97EP1055 970303
PRIORITY (CC, No, Date): CH 96692 960315
DESIGNATED STATES: BE; DE; ES; FR; GB; IT; LU; NL; SE
EXTENDED DESIGNATED STATES: SI
INTERNATIONAL PATENT CLASS: A01N-043/80; A01N-043/80; A01N-43:10;
  A01N-37:22
NOTE:
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                           Update
                                     Word Count
      CLAIMS B
               (English)
                           200136
                                        174
      CLAIMS B
                 (German)
                           200136
                                        151
      CLAIMS B
                 (French)
                           200136
                                        203
      SPEC B
                (English)
                           200136
                                       2716
Total word count - document A
                                          0
Total word count - document B
                                       3244
Total word count - documents A + B
                                       3244
...SPECIFICATION emulsifiable concentrate, wettable powder or granulate is
  applied to the open furrow in which the *seeds* have been sown. After
  *covering* the furrow, the herbicide is applied pre-emergence in
  conventional manner.
  iv) *Controlled* *release* of safener
   A solution of the safener is applied to mineral granulate substrates or
  *polymerised* granulates (urea/formaldehyde) and dried. A coating may
  additionally be applied (coated granulates) which permits *controlled*
  release of the safener over a specific period of time.
    The rate of application can...
 2/3,K/30
              (Item 6 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2002 European Patent Office. All rts. reserv.
00836075
SELECTIVE HERBICIDAL COMPOSITION
SELEKTIV-HERBIZIDES MITTEL
COMPOSITION HERBICIDE SELECTIVE
PATENT ASSIGNEE:
  Novartis AG, (2240421), Schwarzwaldallee 215, 4058 Basel, (CH),
    (Proprietor designated states: all)
INVENTOR:
  HUDETZ, Manfred, 1302 D Adams Farm Parkway, Greensboro, NC 27407, (US)
LEGAL REPRESENTATIVE:
  Roth, Bernhard M. et al (26602), Novartis AG Geistiges Eigentum Konzern,
4002 Basel, (CH)
PATENT (CC, No, Kind, Date):
                              EP 837632 A1
                                              980429 (Basic)
                              EP 837632 B1
                                             990922
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a,

Karen Lehman EIC 3600 04-Dec-02

WO 9702747 970130

EP 96924823 960629; WO 96EP2857 960629 APPLICATION (CC, No, Date):

PRIORITY (CC, No, Date): CH 952023 950711

DESIGNATED STATES: ES; FR; IT

INTERNATIONAL PATENT CLASS: A01N-047/36; A01N-043/90; A01N-043/54;

A01N-043/50; A01N-025/32

NOTE:

No A-document published by EPO

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9938	907
CLAIMS B	(German)	9938	897
CLAIMS B	(French)	9938	1076
SPEC B	(English)	9938	3613
Total word coun	t - documen	it A	0
Total word coun	t - documen	it B	6493
Total word coun	t - documen	ts A + B	6493

...SPECIFICATION emulsifiable concentrate, wettable powder or granulate is applied to the open furrow in which the *seeds* have been sown. After *covering* the furrow, the herbicide is applied preemergence in conventional manner.

iii) *Controlled* *release* of safener

A solution of the compound of formula B is applied to mineral granulate substrates or *polymerised* granulates (urea/formaldehyde) and allowed to dry. A coating may additionally be applied (coated granulates...

(Item 7 from file: 348) 2/3,K/31

DIALOG(R) File 348: EUROPEAN PATENTS

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00787198

A material, method and apparatus for inhibiting bacterial growth in an aqueous medium

Material, Verfahren und Vorrichtung zur Hemmung des Bakterienwachstums in wassrigen Medien

Materiau, procede et dispositif pour inhiber la croissance bacterienne dans un milieu aqueux

PATENT ASSIGNEE:

KODAK LIMITED, (258585), Headstone Drive, Harrow, Middlesex HA1 4TY, (GB) , (applicant designated states: GB)

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York 14650-2201, (US), (applicant designated states: DE; DK; FR; NL; SE) INVENTOR:

Batts, Gregory Nigel, c/o Kodak Limited, Patent Department, Headstone Drive, Harrow, Middlesex, HA1 4TY, (GB)

Leeming, Karen, c/o Kodak Limited, Patent Department, Headstone Drive, Harrow, Middlesex, HA1 4TY, (GB)

Moore, Christopher Peter, c/o Kodak Limited, Patent Department, Headstone Drive, Harrow, Middlesex, HA1 4TY, (GB)

LEGAL REPRESENTATIVE:

Nunney, Ronald Frederick Adolphe et al (34411), Kodak Limited Patent Department Headstone Drive, Harrow Middlesex HA1 4TY, (GB)

PATENT (CC, No, Kind, Date): EP 733303 A2 960925 (Basic)

EP 733303 A3 990217

APPLICATION (CC, No, Date): EP 96200605 960305;

PRIORITY (CC, No, Date): GB 9504629 950308 DESIGNATED STATES: DE; DK; FR; GB; NL; SE

Karen Lehman EIC 3600 04-Dec-02

INTERNATIONAL PATENT CLASS: A01N-025/10; A01N-043/80; C02F-001/50; ABSTRACT WORD COUNT: 84 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count CLAIMS A (English) EPAB96 231 SPEC A (English) EPAB96 2045 Total word count - document A 2276 Total word count - document B 0 Total word count - documents A + B 2276 ... SPECIFICATION protect the environment. Alternative methods of inhibiting bacterial growth in aqueous media involve the gradual *release* of a biocide through interaction with water e.g. by leaching. GB-A-2 223 662 describes a *coating* composition for *seeds* which comprises an organic biocide chemically bound to a *polymer* by a hydrolytically unstable bond. The *polymer* gradually hydrolyses giving *controlled* *release* of the organic biocide. Problem to be solved by the Invention A problem associated with... 2/3,K/32 (Item 8 from file: 348) DIALOG(R) File 348: EUROPEAN PATENTS (c) 2002 European Patent Office. All rts. reserv. 00784056 High efficiency controlled release phosphate-based fertilizer Phosphatdungemittel mit gesteuerter Freigabe Engrais a liberation controlee a base de phosphate PATENT ASSIGNEE: SHERRITT INC., (251675), 10101-114th Street, Fort Saskatchewan, Alberta T8L 2P2, (CA), (applicant designated states: DE; ES; FI; FR; IT; NL) INVENTOR: Wolstenholme, Jack, 165 Meadowview Bay, Sherwood Park, Alberta T8H 1P7, Pauly, Donald G., 9726-157th Street, Edmonton Alberta T5P 2T3, (CA) Nyborg, Martin, 9115-117 Street, Edmonton Alberta T6G 1T6, (CA) Solberg, Elston, Box 1, Ryley Alberta TOB 4AO, (CA) LEGAL REPRESENTATIVE: Newstead, Michael John et al (34352), Page Hargrave Temple Gate House Temple Gate, Bristol BS1 6PL, (GB) EP 731067 A2 PATENT (CC, No, Kind, Date): 960911 (Basic) EP 731067 A3 980211 EP 96301638 960311; APPLICATION (CC, No, Date): PRIORITY (CC, No, Date): GB 9504875 950310 DESIGNATED STATES: DE; ES; FI; FR; IT; NL INTERNATIONAL PATENT CLASS: C05B-007/00; C05G-005/00; C05G-003/00; ABSTRACT WORD COUNT: 80 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count 337 CLAIMS A (English) EPAB96 EPAB96 1837 SPEC A (English) Total word count - document A 2174 Total word count - document B 0 Total word count - documents A + B 2174

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